AIRCRAFT DISPATCHER

UNIT 1 – AIRCRAFT FLIGHT PLANNING LESSON D – POINT LOCATION DESCRIPTIONS INSTRUCTIONS TO THE INSTRUCTOR

Unit 1 is composed of four lessons; consider using more than one qualified instructor to teach this unit.

NOTES

DETAILED LESSON OUTLINE

COURSE: Aircraft Dispatcher

UNIT: 1 – Aircraft Flight Planning

LESSON: D – Point Location Descriptions

TIME: 40 minutes

TRAINING AIDS: Overhead projector or computer with CD-ROM and

computer projector; projection screen; markers, masking

tape or tacks; handouts; flip chart;

OBJECTIVES: Given a simulated wildland fire incident, case study, or

exercise, students will be able to:

• Identify two primary methods of describing a point

location to a pilot.

• Describe the difference between coordinates given

in degrees/minutes/tenths and

degrees/minutes/seconds.

• Convert one type of coordinate to another.

		AIDS & CUES	
IN	TROD	1D-01-ACDP-EP	
PR	RESEN	T THE LESSON OBJECTIVES.	1D-02-ACDP-EP 1D-03-ACDP-EP
I.	DES	CRIBING LOCATIONS	1D-04-ACDP-EP
	A.	Geographic Locations	1D-05-ACDP-EP
		Geographic locations can be used to describe point locations.	

	AIDS & CUES				
		pilot a			
	Exai	mple:			
B.	Latit	tude an	1D-06-ACDP-EP		
	1.	Wor	ld-wide	1D-07-ACDP-EP	
	2.	Lora (GPS			
	3.	Publ	ished o		
	4.	Writ	ten or	1D-08-ACDP-EP	
		a.	Degr	rees, minutes, seconds	
		b.	_	rees, minutes, tenths or redths, or thousandths	
		c.	_	rees, tenths, hundredths, sandths, or greater	
	5.	Converting Coordinates a. Seconds to tenths:			
					1D-09-ACDP-EP
			•	Seconds ÷ 60 seconds = tenths	
				- 15 ÷ 60 = .25	
			•	Tenths x 60 seconds = seconds	
				- .25 x 60 = 15"	

		OUTLINE		AIDS & CUES
	b.			
		Seconds 15 30	<u>Tenths</u> .25 .50	
		45	.75	
		60	1.00	
FER DEN NVE DM S ND D DEN 11-A	1D-13-ACDP-EI SG page 1D-5			
C.	Township,	1D-13-ACDP-EI		
	Formally l Descriptio			
	Planned in	1784 by the Co	ontinental Congress.	
	• "Pu and Eas mile squa	blic lands shall l South lines and t and West so as es square (not 6	be divided by North by other lines running to form Townships 6 square miles, but a leach side, with an	<u> </u>

	AIDS & CUES				
D.	Universal Transverse Mercator (UTM)	1D-15-ACDP-EP			
	The Universal Transverse Mercator is an international plane (rectangular) coordinate system developed by the U.S. Army. The UTM divides the world into 60 zones of 6 degrees longitude. Each zone extends 3 degrees east and west from its central meridian and are numbered consecutively west to east from the 180-degree meridian.				
E.	VHF Omni-directional Range (VOR)	1D-16-ACDP-EP			
	The VOR or VORTAC station transmits a unique signal allowing aircraft to determine its bearing relative to the VOR station.				
SOUTHERN STUDENTS MAY INQUIRE AS TO USING METES AND BOUNDS FOR DESCRIBING LOCATIONS. METES AND BOUNDS ARE NOT UTILIZED IN AIRCRAFT DISPATCHING.					
REVIEV	1D-17-ACDP-EP				
ASK TH QUESTI	1D-18-ACDP-EP				

AIRCRAFT DISPATCHER

UNIT 1 – AIRCRAFT FLIGHT PLANNING

LESSON D – POINT LOCATION DESCRIPTION

INSTRUCTOR REFERENCE

Reference No. Description

1D-01-ACDP-EP Coordinate Conversion Exercise

NOTES

COORDINATE CONVERSION EXERCISE

1. You have been given the following coordinates:

Latitude: 43°33'.85"N

Longitude: 116°13'.37"W

Convert the coordinates from tenths to seconds:

Latitude:

$$.85 \times 60 = 51$$
"

Longitude:

$$.37 \times 60 = 22$$
"

2. You have been given the following coordinates:

Latitude: 43°33'51"N

Longitude: 116°13'22"W

Convert the coordinates from seconds to tenths:

Latitude:

Longitude:

NOTES